

# NICHOLSON FILE COMPANY

PROVIDENCE, RHODE ISLAND, U.S.A.



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CABLE ADDRESS  
NICHOLSON PROVIDENCE

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OUR ORDER CODE

# NICHOLSON FILE COMPANY



PROVIDENCE, RHODE ISLAND, U.S.A.

1911



# NICHOLSON FILE COMPANY



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NICHOLSON FILE COMPANY



## INTRODUCTION

THIS series of illustrations is intended to place before users and dealers a comprehensive display of all kinds of Files now in common use. The four pages, 12 to 15, of sections embrace all the shapes in general use, and are carefully drawn to standard sizes. On pages 54 to 59 are shown specimen cuts of files, double cut, single cut, and rasp. These specimen cuts are designed to show a comparison in style and coarseness of cut between the various sizes of files in the kinds illustrated.

The illustrations show, first, Nicholson Increment Cut Files and Rasps, pages 16 to 52, then Nicholson X. F. Files, Swiss Pattern, pages 60 to 82, followed by several pages of Manicure Files, and Tools and Specialties, all manufactured by this Company.

On page 7 we present a short account of the work of Mr. William T. Nicholson, the founder of this Company; on page 11, a brief statement of our facilities; and on page 53, a concise description of this Company's product.

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## THE NICHOLSON FILE COMPANY AND ITS FOUNDER

LESS than a mile from the center of the city of Providence, within a short distance of all the railroad and steamship depots, are situated the factories of the Nicholson File Company. These buildings are entirely of brick, well-lighted and ventilated, and designed especially for manufacturing files. They are full of special machinery and appliances, and collectively represent the life work of Mr. William Thomas Nicholson, the founder of the Nicholson File Company, and the successful developer of the machine-file-making industry.

Mr. Nicholson early manifested that love for mechanics which he was to afterwards put to such practical use. Previous to the Civil War he engaged in the machine tool business, and it was while operating a machine shop on his own account that he developed his ideas on machine file making, and built his first file-cutting machine. Believing that he could hope to make a success only by fully understanding the details of the business as it then existed, he devoted himself to the study of file making in all its branches, carrying his investigations to Europe, which at that time supplied the greater number of files used in America, and where he spent considerable time investigating this and kindred industries, especially the manufacture and treatment of steel.

In 1864, the Nicholson File Company was incorporated, and proceeded at once to erect a plant at Providence, R. I. This plant it was at that time hoped might be developed to a production of 300 dozen files per day. Business, however, was not easily obtained. Several similar enterprises were at that date in full operation.

These were destined soon to prove failures, and to sink over \$2,000,000 in the vain attempt to manufacture files by machinery. These failures, and the fact that large numbers of poor machine-made



WILLIAM T. NICHOLSON  
FOUNDER

files had been placed on the market, were quickly used by the hand cutters, both in this country and abroad, as conclusive arguments to prove that all machine-made files were inferior. This opposition was a cause of much delay in getting even a trial for the new files, and the first years were full of many discouragements.

Believing in his files, Mr. Nicholson kept the products of this Company constantly before the public, and superior merits quickly manifesting themselves,

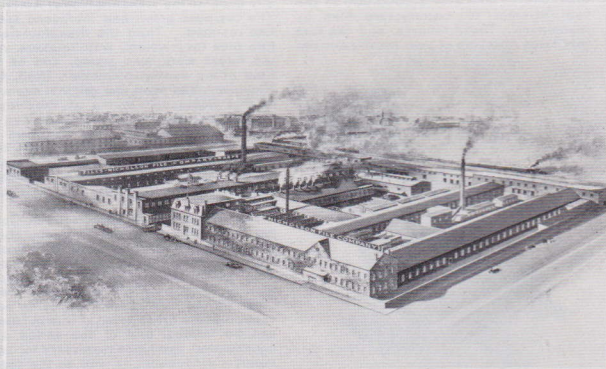
the Nicholson Increment Cut Files gradually became the standard files of America. The business grew, and increased facilities resulted. Then the manufacture of fine files for jewelers, watchmakers, and the finest work was added, and at the time of his death, in October, 1893, Mr. Nicholson had seen the original capacity of this Company's works at Providence increased from the small beginning to over 1,500 dozen files per day, and an unequalled file manufacturing plant and organization established, capable of meeting the wants of every industry, thus realizing what had long been his cherished desire.

The products of the Nicholson File Company now have a world-wide reputation, and when it is understood that they manufacture at their Providence factories alone over 3,500 different kinds of standard files, and that each file is handled many times during its manufacture, some conception of the great detail of this business can be formed, and of the varied and complicated machines necessary for economical production, as well as the credit due Mr. Nicholson for the persistency and inventive genius displayed in developing this industry.

Mr. Nicholson was never satisfied to produce anything but the best, believing that a uniform quality, and one which should give the greatest efficiency, were the requisites of the truly cheap articles of commerce.

With the past before them, the present management propose to continue to merit the preference accorded only after much hard work and struggling, and which once attained has never departed from the Nicholson Increment Cut Files.

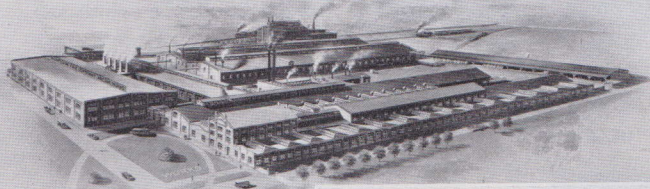




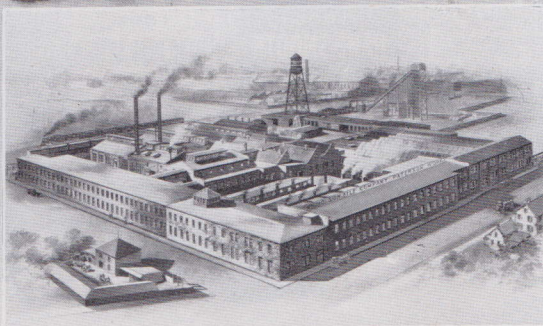
PLANT AT PROVIDENCE, R. I.



PLANT AT PORT HOPE, ONT.

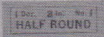
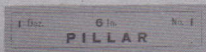
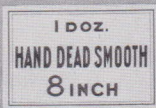
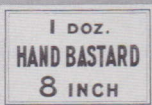


PLANT AT ANDERSON, IND.



PLANT AT PATERSON, N. J.





## BOXES AND LABELS



## NICHOLSON INCREMENT CUT FILES

## FACILITIES

THE facilities which the Nicholson File Company possesses for manufacturing files of every description and in any quantity are unequalled.

It was the aim of the founder of this Company to create a plant adequately equipped to meet any requisition for any file at any time, and the fact that we have for years past met all demands for files of any section, length, and number of teeth, shows that this aim was long since realized.

Its extensive buildings were designed especially for this business, and constitute of themselves no small factor in promoting a high grade of product.

Add to this the special machinery and systems of operation which represent the researches and inventions of Mr. William T. Nicholson, and the adaptation to the uses of this Company of all that was found of value in the machinery of other separate companies which was acquired by purchase, and we have facilities unapproached in the history of file making.

Ample working capital permits a large and thoroughly assorted stock to be carried at all times, insuring the utmost despatch in filling orders.

## GUARANTEE

Every file before leaving the works of this Company is thoroughly examined for shape, cutting qualities, soundness, and temper. In addition, each file receives close inspection after each operation.

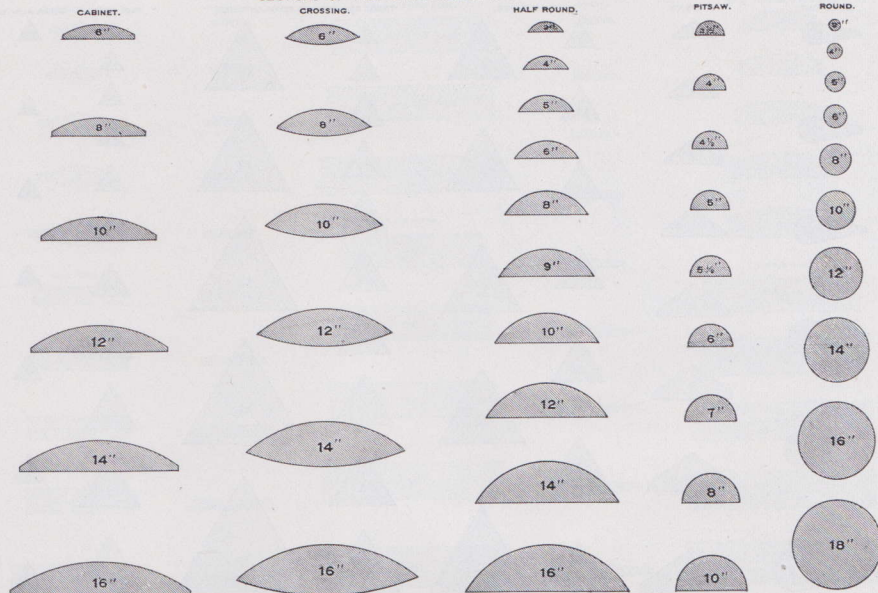
These rigid examinations guarantee to the purchasers of this Company's products a uniformly high efficiency not possible by any other system. Should our examination of any files returned to us prove the complaint of the purchaser to be just, they will be made good.

SECTIONS OF FILE STEEL REGULAR KINDS AND SIZES.

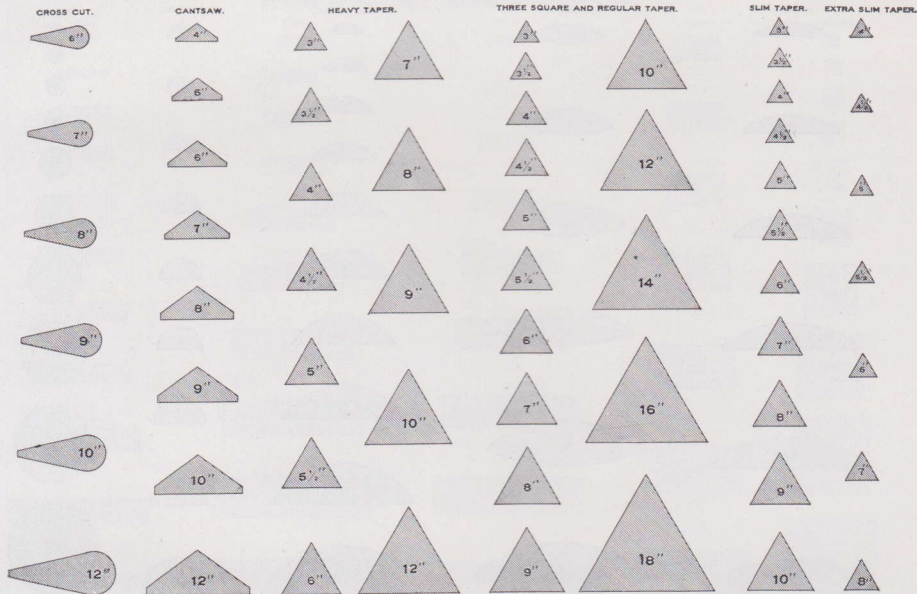
MILL.	FLAT.	HAND.	PILLAR.	SQUARE.
3"	3"	3"	5"	3"
4"	4"	4"		4"
5"	5"	5"	7"	5"
6"	6"	5"		6"
7"	8"	5"	8"	8"
8"	10"	8"	10"	10"
9"	12"	10"	12"	12"
10"	14"	12"		14"
12"	16"	14"	14"	16"
14"	18"	16"	16"	18"



SECTIONS OF FILE STEEL REGULAR KINDS AND SIZES.
























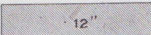



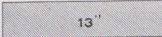



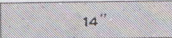



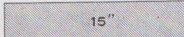
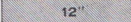

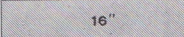


SECTIONS OF FILE STEEL REGULAR KINDS AND SIZES.





SECTIONS OF FILE STEEL REGULAR KINDS AND SIZES.

FEATHER EDGE.	WARDING.	PLAIN RASP SLIM.	KNIFE.	HALF ROUND SHOE RASP.
 4"	 3"	16" from 14" Steel	 5"	 6"
 5"	 3 1/2"	18" from 16" Steel	 5 1/2"	 7"
 6"	 4"	18" from 16" Steel	 4"	 8"
 7"	 4 1/2"	18" from 16" Steel	 4 1/2"	 9"
 8"	 5"	PLAIN RASP.		 10"
MILL HEAVY.		13"	 5"	TANGED RASP.
 6"	 5 1/2"	14"	 6"	 12"
 8"	 6"	15"	 7"	 13"
 9"	 7"	16"	 8"	 14"
 10"	 8"	18"	 10"	 15"
 12"	 10"			 16"



HAND COARSE.



HAND BASTARD.



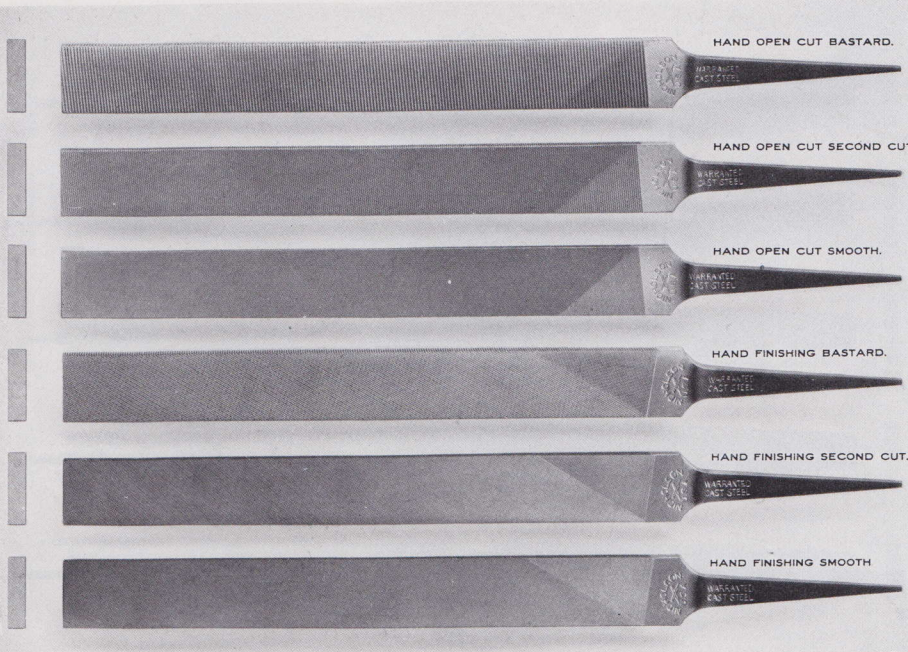
HAND SECOND CUT.



HAND SMOOTH.



HAND DEAD SMOOTH.







FLAT COARSE.



FLAT BASTARD.



FLAT SECOND CUT.



FLAT SMOOTH.



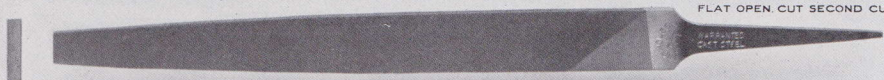
FLAT BASTARD 2 ROUND EDGES.



FLAT OPEN CUT COARSE.



FLAT OPEN CUT BASTARD.



FLAT OPEN CUT SECOND CUT.

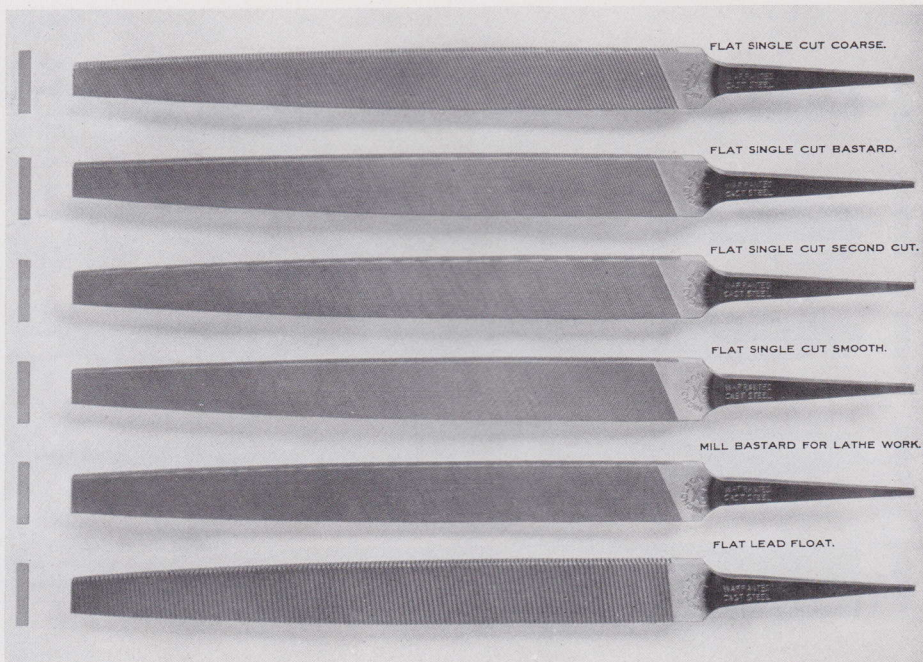


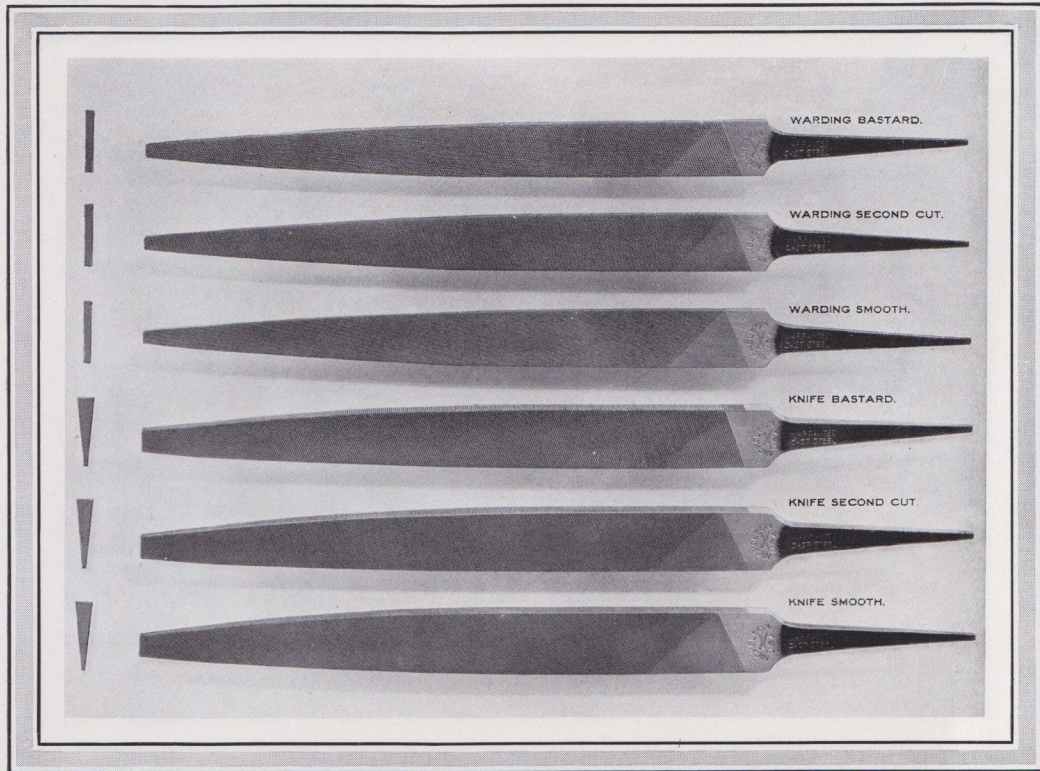
FLAT OPEN CUT SMOOTH.



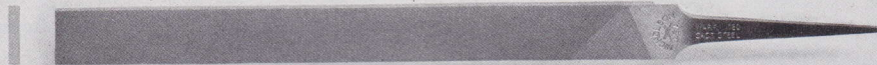
FEATHER EDGE BASTARD.







MILL BLUNT DOUBLE CUT BASTARD.



MILL BLUNT DOUBLE CUT SECOND CUT.



MILL BLUNT DOUBLE CUT SMOOTH.



THREE SQUARE BASTARD.



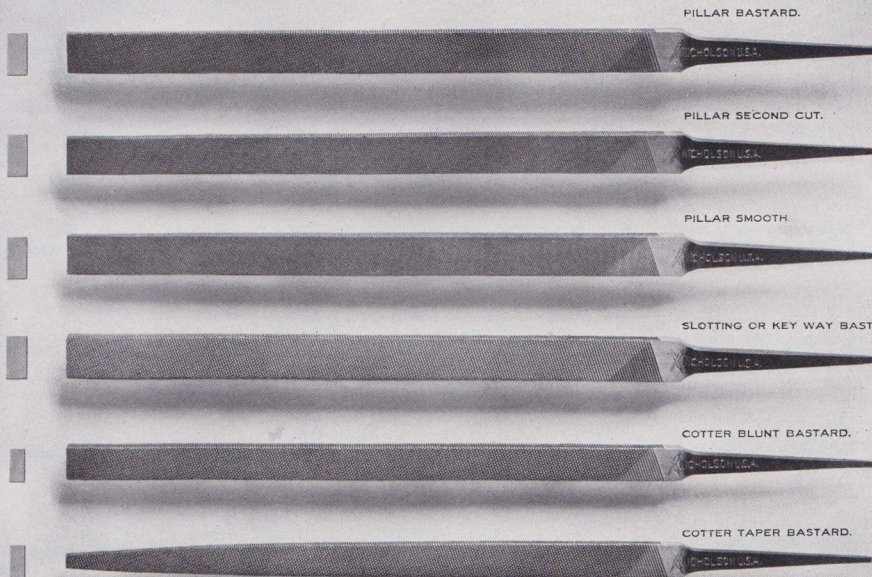
THREE SQUARE SECOND CUT.

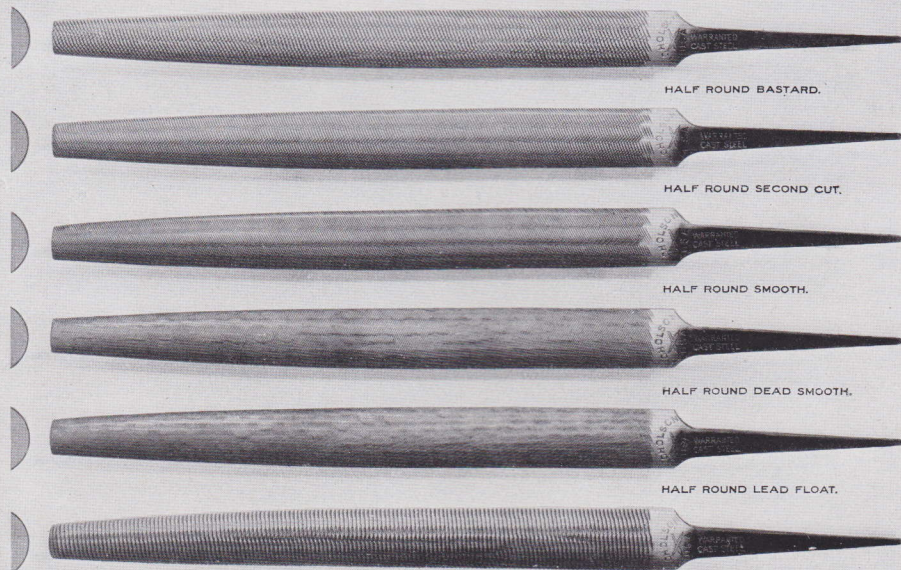


THREE SQUARE SMOOTH.

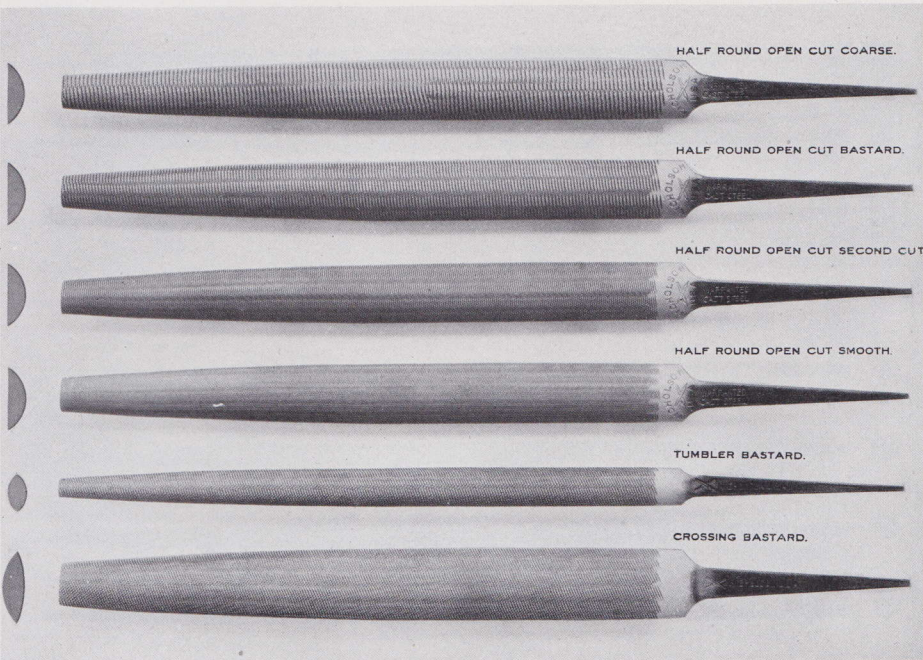












HALF ROUND OPEN CUT COARSE.

HALF ROUND OPEN CUT BASTARD.

HALF ROUND OPEN CUT SECOND CUT

HALF ROUND OPEN CUT SMOOTH.

TUMBLER BASTARD.

CROSSING BASTARD.



SQUARE BASTARD.

NICHOLSON U.S.A.



SQUARE SECOND CUT.

NICHOLSON U.S.A.



SQUARE SMOOTH.

NICHOLSON U.S.A.



SQUARE BLUNT BASTARD.

NICHOLSON U.S.A.



ROUND BASTARD.

NICHOLSON U.S.A.



ROUND SECOND CUT.

NICHOLSON U.S.A.



ROUND SMOOTH.

NICHOLSON U.S.A.



ROUND BLUNT BASTARD

NICHOLSON U.S.A.



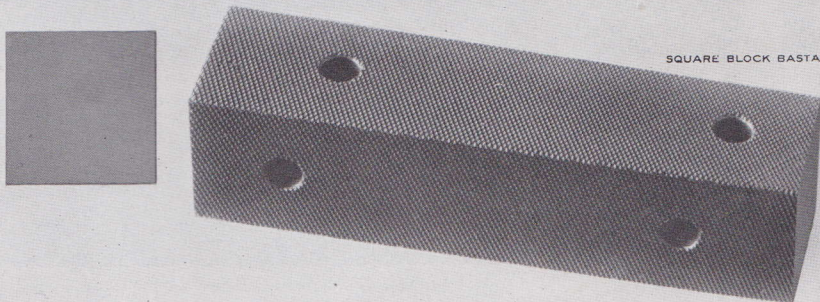
FLAT SHOE RASP.



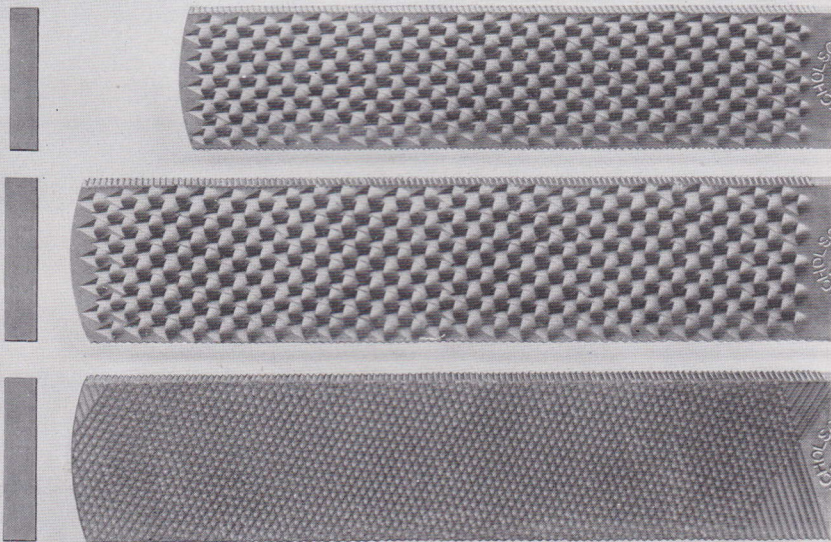
HALF ROUND SHOE RASP.



SQUARE BLOCK BASTARD 6" X 1 1/4"



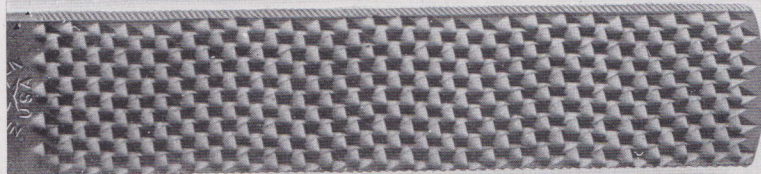




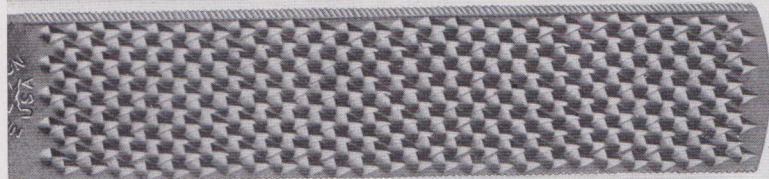
14" PLAIN RASP HALF FILE.



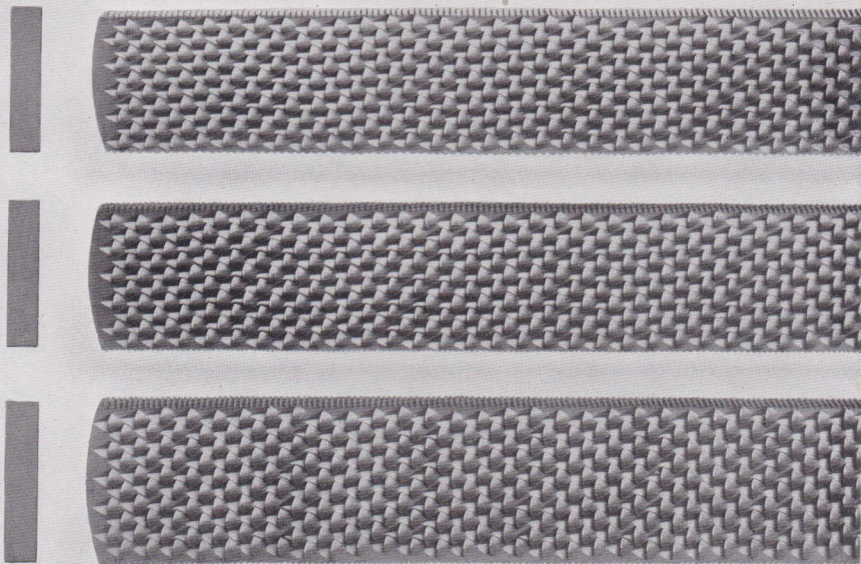
16" PLAIN RASP HALF FILE.



16" PLAIN RASP QUARTER FILE.

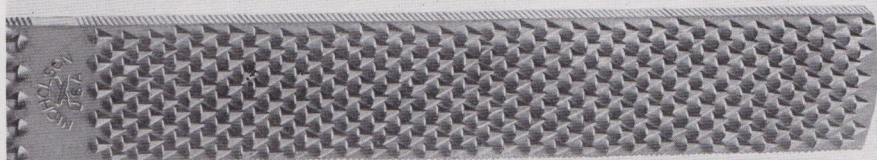








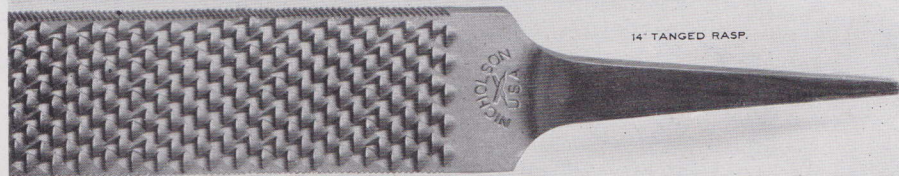
18" PLAIN RASP SLIM HALF FILE.

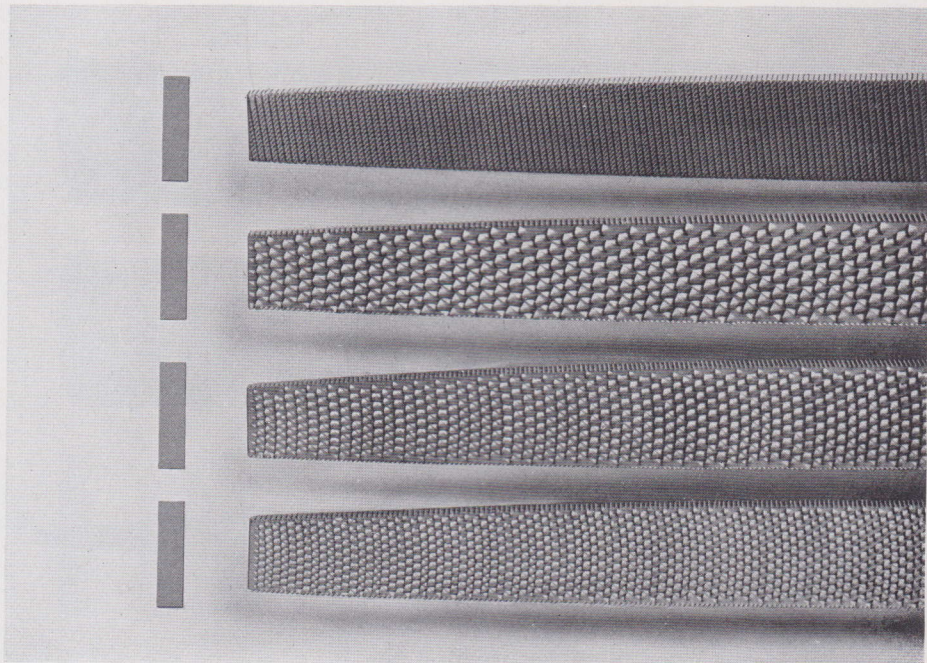


18" PLAIN RASP SLIM QUARTER FILE.

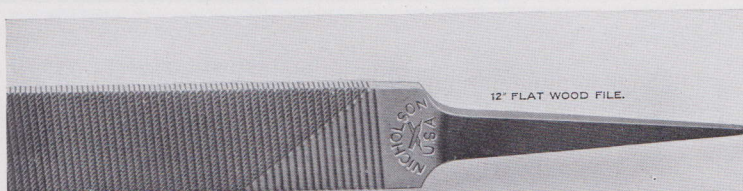


14" TANGED RASP.

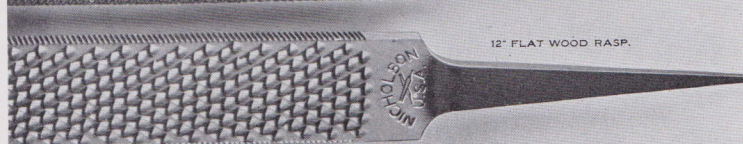








12" FLAT WOOD FILE.



12" FLAT WOOD RASP.

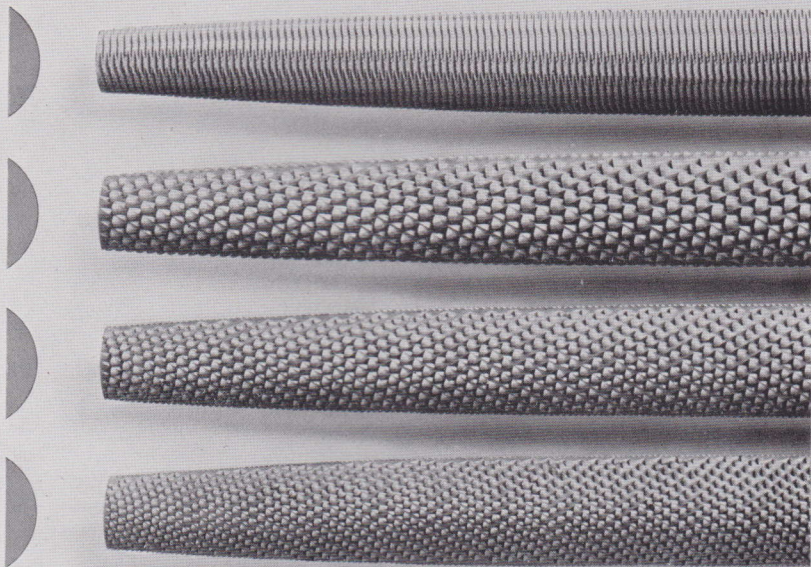


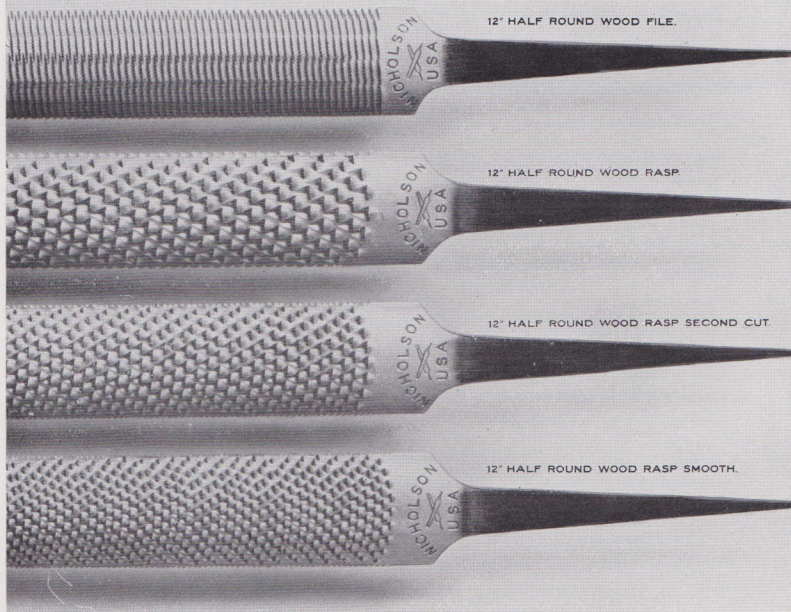
12" FLAT WOOD RASP SECOND CUT.



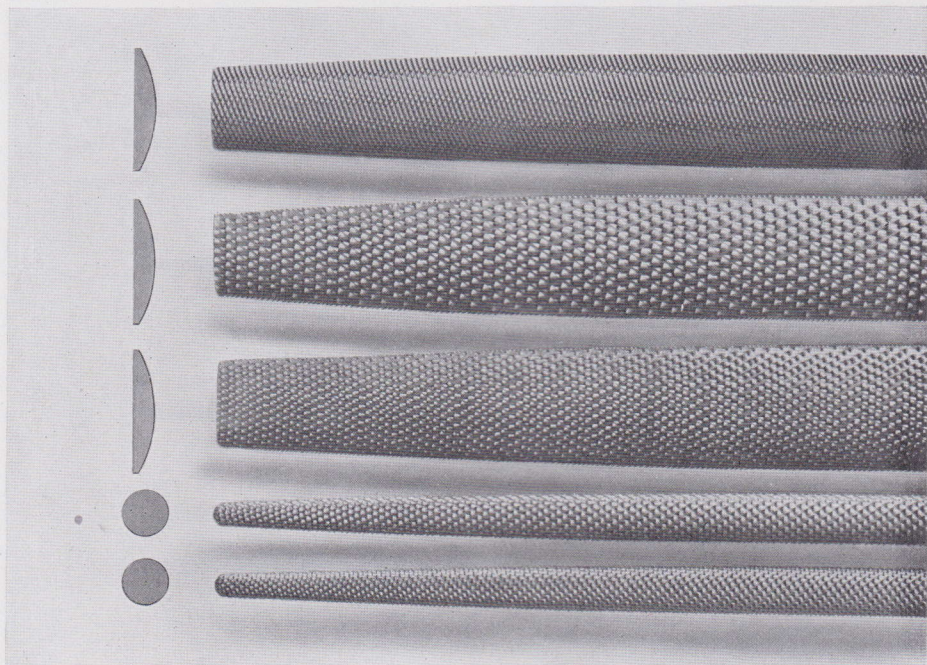
12" FLAT WOOD RASP SMOOTH.



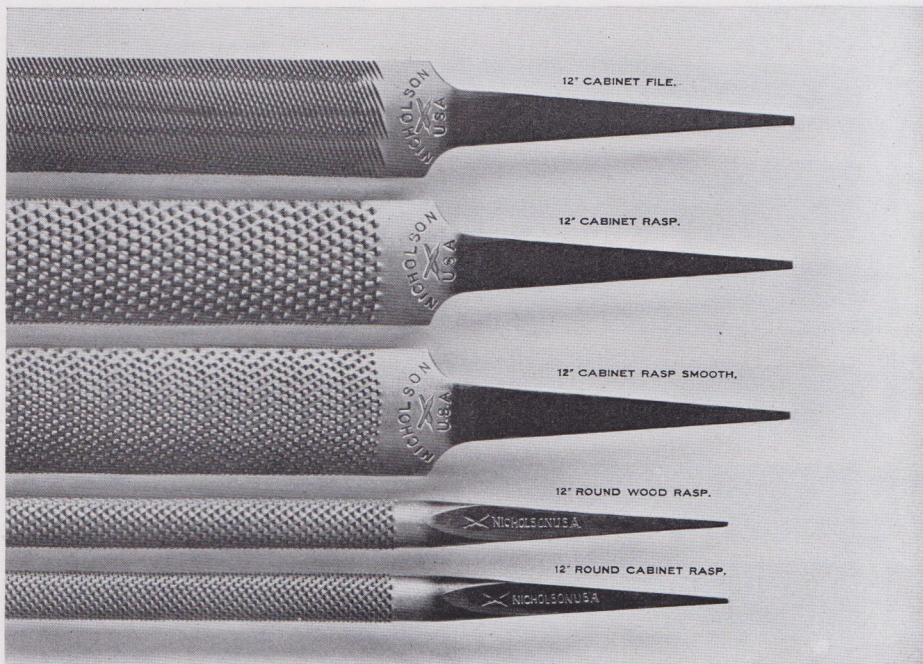


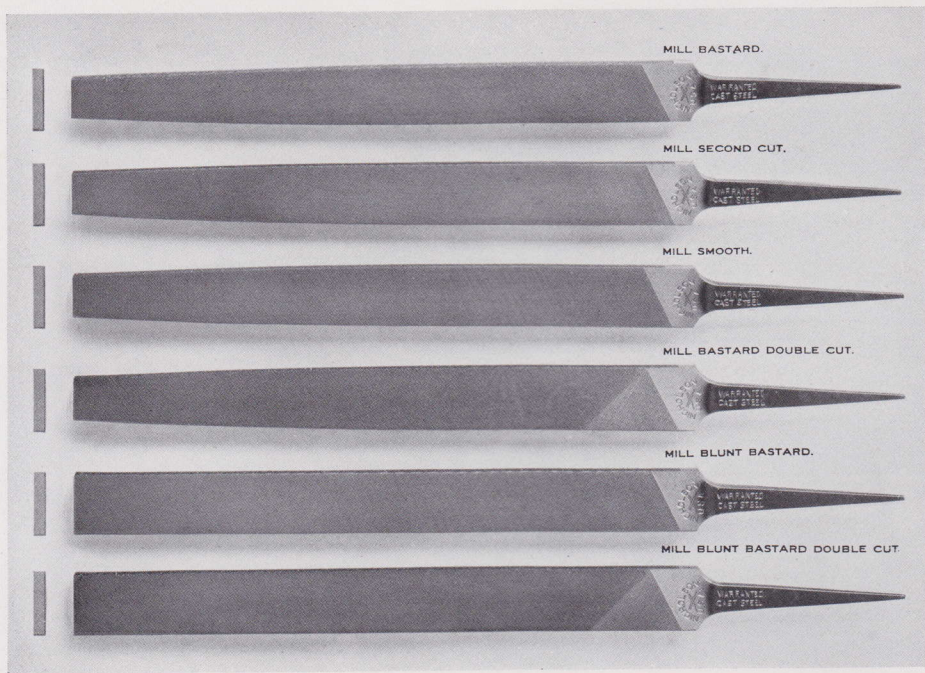














MILL BASTARD 1 ROUND EDGE.



MILL SECOND CUT 1 ROUND EDGE.



MILL BASTARD 2 ROUND EDGES.



MILL SECOND CUT 2 ROUND EDGES.



MILL BLUNT BASTARD 1 ROUND EDGE.

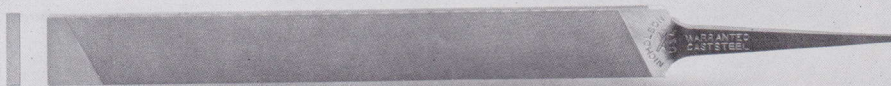


MILL BLUNT BASTARD 2 ROUND EDGES.

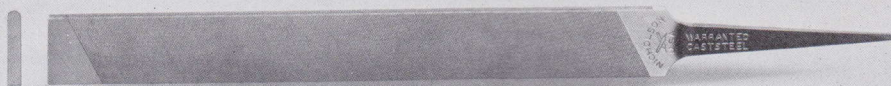




MILL HEAVY.



MILL HEAVY 1 ROUND EDGE.



MILL HEAVY 2 ROUND EDGES.



MILL HEAVY 1 ROUND EDGE DOUBLE CUT.



4" EXTRA SLIM TAPER.



4½" EXTRA SLIM TAPER.



5" EXTRA SLIM TAPER.



5½" EXTRA SLIM TAPER.



6" EXTRA SLIM TAPER.

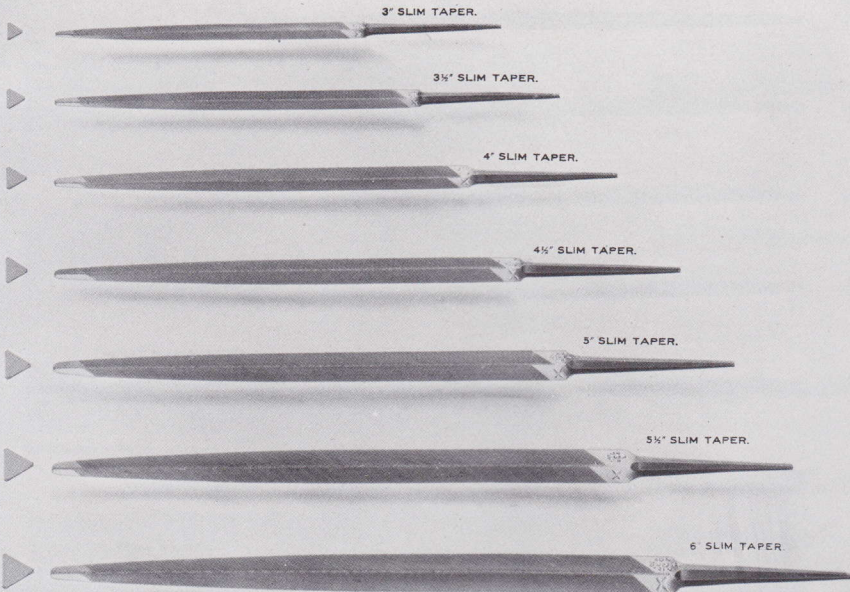


5" HANDSAW BLUNT EXTRA SLIM.

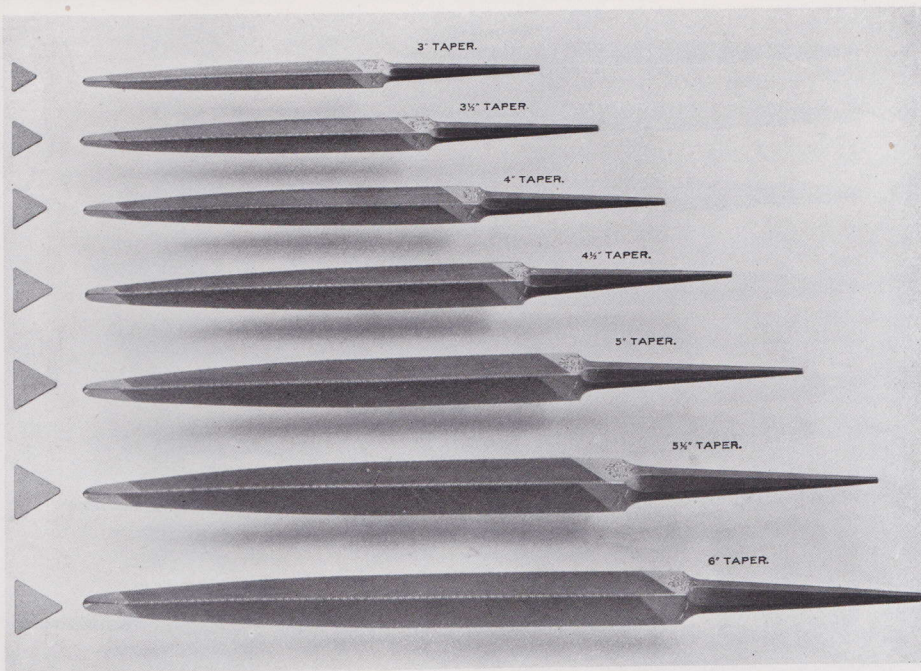


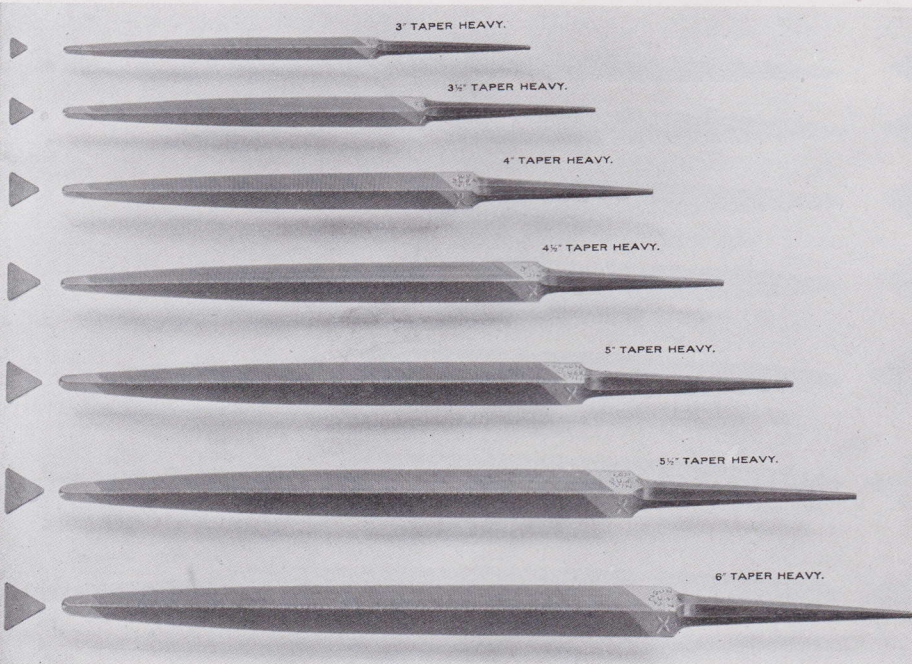
6" HANDSAW BLUNT EXTRA SLIM.











4" SLIM TAPER DOUBLE CUT.

5" SLIM TAPER DOUBLE CUT.

6" SLIM TAPER DOUBLE CUT.

4" TAPER HEAVY DOUBLE CUT.

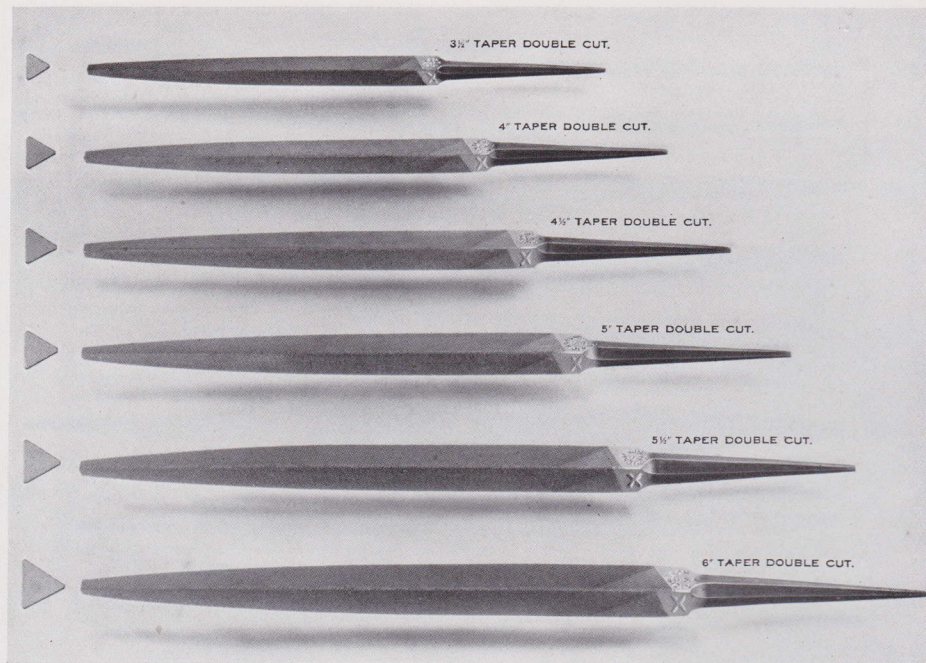
5" TAPER HEAVY DOUBLE CUT.

6" TAPER HEAVY DOUBLE CUT.

No. 8 DOUBLE ENDER.

No. 7 DOUBLE ENDER WITH HANDLE.









BANDSAW BLUNT SLIM.



BANDSAW BLUNT REGULAR.



BANDSAW BLUNT HEAVY.



BANDSAW TAPER SLIM.

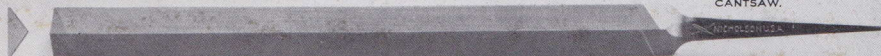


BANDSAW TAPER REGULAR.



BANDSAW TAPER HEAVY.

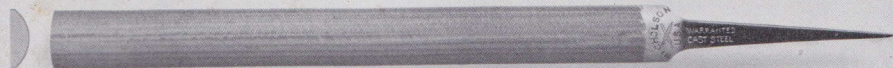




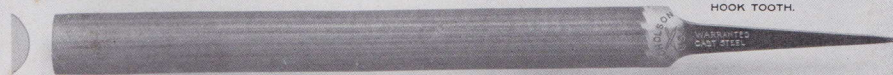
CANTSAW.



CROSS CUT.



INSERTED TOOTH OR CHISEL POINTING.



HOOK TOOTH.



HOOK TOOTH SAFE BACK.



STAVE SAW IMPROVED.



STAVE SAW REGULAR.



SQUARE MILL SAW BASTARD.



TRIANGULAR MILL SAW BASTARD.



GULLETTING.

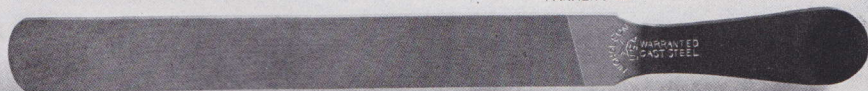


PIT SAW

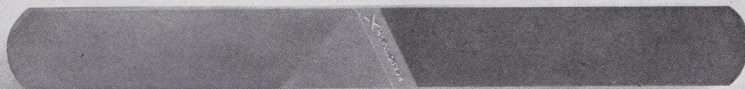
NICHOLSON INCREMENT CUT FILES

NICHOLSON  
U.S.A.NICHOLSON  
U.S.A.

FARMER'S OWN.



PLANER KNIFE.



REAPER KNIFE KNIFE SHAPE SOLID HANDLE.



WEED'S SPECIAL WITH HANDLE.





MACHINE BANDSAW LIGHT.



MACHINE BANDSAW HEAVY.



IMPROVED TAPER SLIM.



IMPROVED TAPER REGULAR.



KNIFE GIN SAW.



CLIMAX SAW.



## OUR PRODUCTS

### NICHOLSON INCREMENT CUT FILES

**T**HESE are manufactured exclusively at our principal factories in Providence, R. I., and are made in the regular grades of cut, viz.: Rough, Coarse, Bastard, Second Cut, Smooth, and Dead Smooth, but of the peculiar arrangement of the teeth secured to this Company by letters patent, and are universally known as the Increment Cut Files.

In these files the essential requisite to the production of a perfect file are met, and the several objections to the equidistant spacing of the teeth of the file, which has been the prevailing principle in machines used by other manufacturers, are entirely overcome. The arrangement of the teeth of the Increment Cut may be described as follows:

1st. The rows of teeth are spaced progressively wider, from the point toward the middle of the file, by regular increments of spacing, and progressively narrower, from the middle toward the heel, by regular decrements of spacing.

2d. This general law of the spacing of the teeth is modified by introducing, as they are cut, an element of controllable irregularity as to their spacing, which irregularity is confined within maximum and minimum limits, but is not a regular progressive increment or decrement.

3d. In arranging the teeth of files so that the successive rows shall not be exactly parallel, but cut slightly angularly with respect to each other, the angle or inclination being reversed (during the operation of cutting) as necessity requires.

In addition to the above, the tooth is so formed as to have a keen edge and special shape, designed to withstand pressure and to free itself readily from chips.

Files possessing the characteristics above mentioned do not produce channels or furrows in the work, but effect a shearing cut, for the reason that no two successive teeth in any longitudinal row of a cross-cut file are in alignment, the file is thereby able to cut more smoothly and more rapidly, and possesses greater endurance than any file whose teeth are not disposed upon the same principle.

### X. F. FILES

X. F. is a term given to a brand of Nicholson files, and signifies EXTRA FINE. In general it applies to all Swiss Pattern files, or that class of files used by jewelers, watch and tool makers, and for similar fine work in which the best material and superior workmanship are required. The cut is designated by numbers ranging from No. 00, the coarsest, to No. 8, the finest.

While for many kinds of work the Increment Cut Files are all that are required, for more particular purposes Swiss pattern files are demanded.

These files are separately listed, and are manufactured in a factory by themselves, and with special facilities controlled exclusively by this Company.

**MANICURE FILES.**—The growing interest in the care of the nails, and the attending personal comfort, induced this Company some time ago to manufacture a line of manicure files, which we illustrate in this catalogue.

### TOOLS AND SPECIALTIES

The list of special tools manufactured by the Nicholson File Company will be found to comprise a number of useful articles. Its kits of Scrapers and Bent Riffles are intended for bench workers, and to a similar class belong the Stub File and Holder for dressing depressed surfaces.

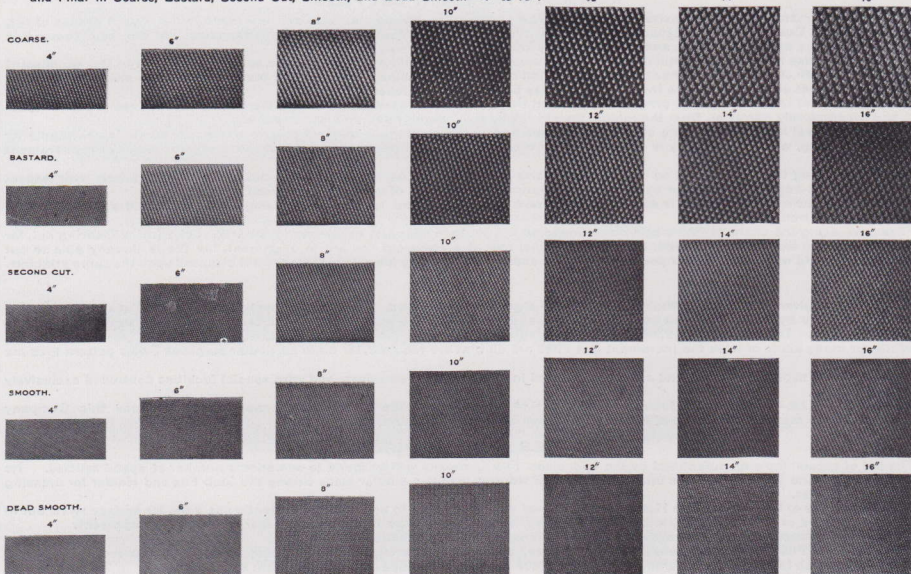
The advantages of the Surface File Holder consist in not only being able to hold and conveniently use a file for surface work, but in being able to bend or curve it slightly when desired. The value of this feature to the practical filer will be readily apparent.

Horse Mouth Rasps Handled are made plain and detachable, as shown in illustrations.

File Cards and File Brushes are substantially made, and of the best material, the card clothing being firmly secured to the holder. Each card or brush is provided with a scorer or metal piece for removing chips or pin pieces from the file teeth.

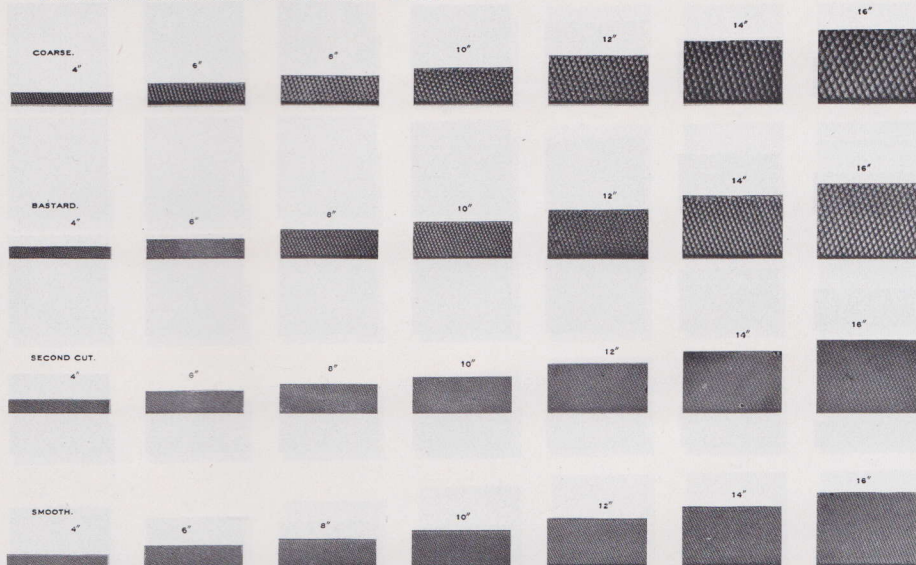
**FILE HANDLES.**—We illustrate a line of superior handles made by us, and designed to meet the wants of the practical filer. These are made from hard wood, smoothly turned and polished, with straight drilled tang holes, and are strongly ferruled.

Showing Comparative Cuts of Files with Flat Surfaces—Double Cut, Including Flat, Hand, and Pillar in Coarse, Bastard, Second Cut, Smooth, and Dead Smooth—4" to 16".



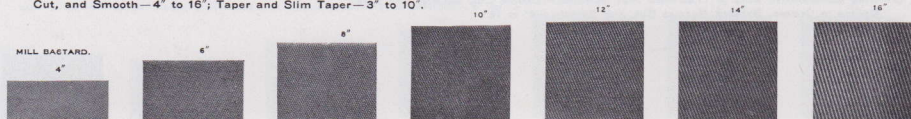


Showing Comparative Cuts of Files with Flat Surfaces—Double Cut, Square, and Three Square In Coarse, Bastard, Second Cut, and Smooth—4" to 16".

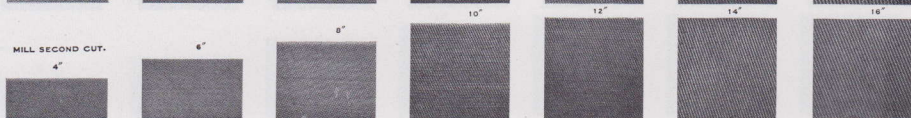


Showing Comparative Cuts of Files with Flat Surfaces—Single Cut, Mill Bastard, Second Cut, and Smooth—4" to 16"; Taper and Slim Taper—3" to 10".

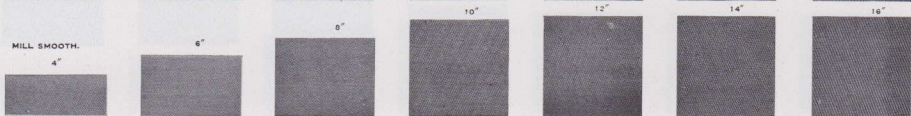
MILL BASTARD.



MILL SECOND CUT.



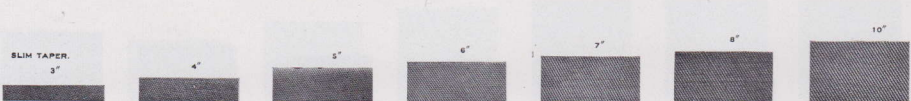
MILL SMOOTH.



REGULAR TAPER.

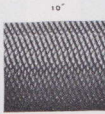
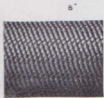


SLIM TAPER.

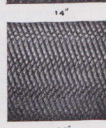
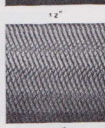
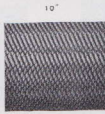
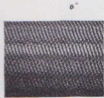


Showing Comparative Cuts of Files with Curved Surfaces—Double Cut, including Half Round, and Crossing in Coarse, Bastard, Second Cut, Smooth, and Dead Smooth—  
4" to 16".

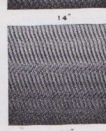
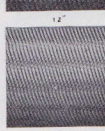
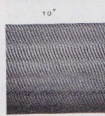
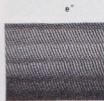
COARSE.



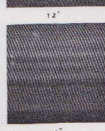
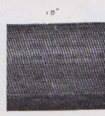
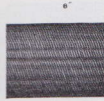
BASTARD.



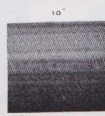
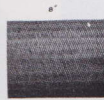
SECOND CUT.



SMOOTH.



DEAD SMOOTH.





Showing Comparative Cuts of Files with Curved Surfaces—Round Bastard, Second Cut, and Smooth—4" to 16"; Cabinet Files—6" to 16".

ROUND BASTARD.



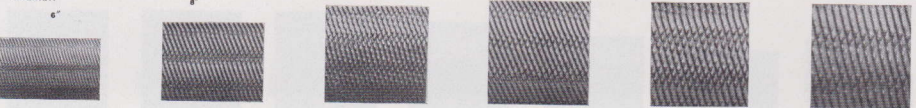
ROUND SECOND CUT.



ROUND SMOOTH.



CABINET.



Showing Comparative Cuts of Wood and Cabinet Rasps — 6" to 16",

WOOD RASP  
REGULAR.



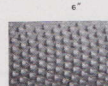
WOOD RASP  
SECOND CUT.



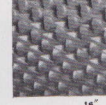
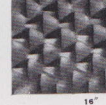
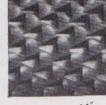
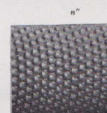
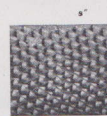
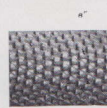
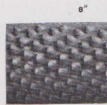
WOOD RASP  
SMOOTH.

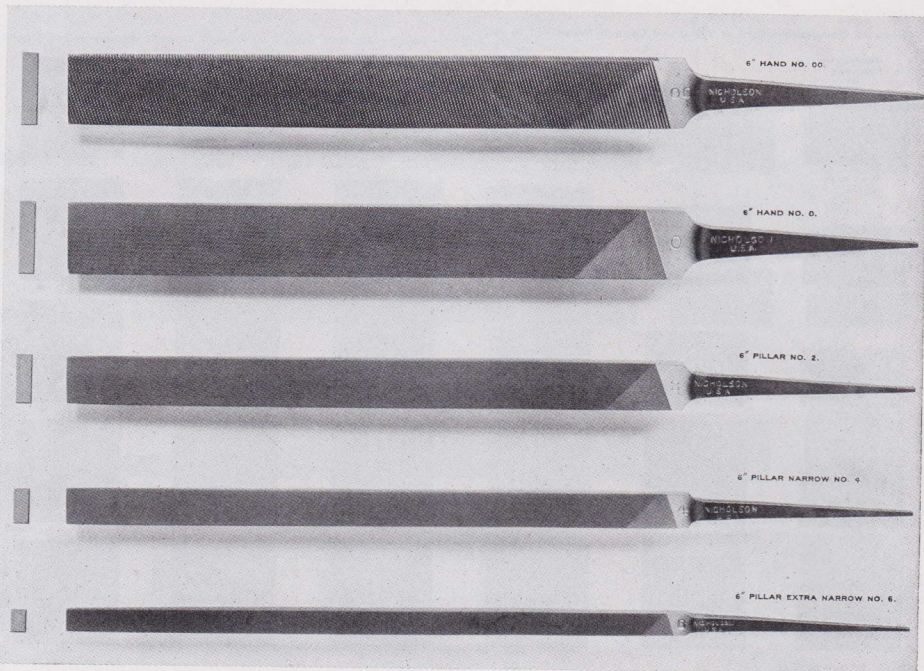


CABINET RASP  
REGULAR.



CABINET RASP  
SMOOTH.

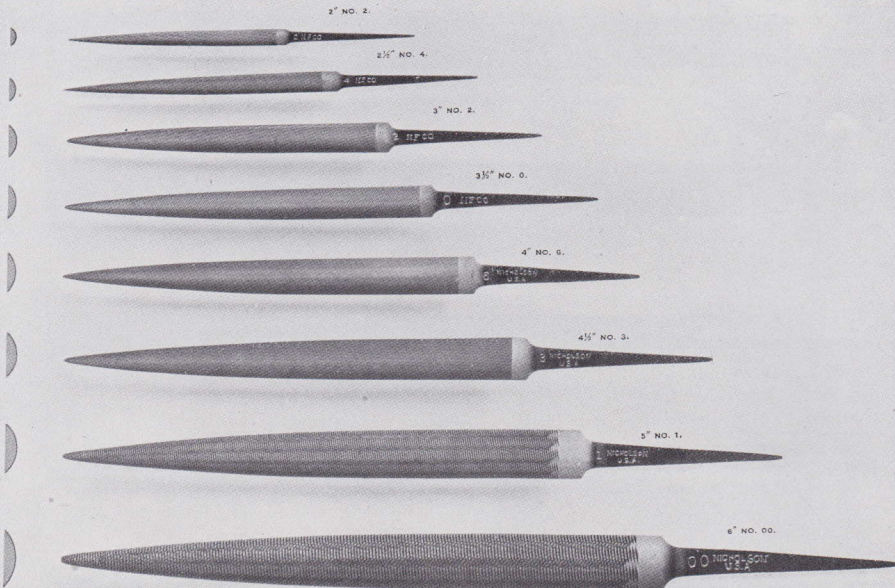




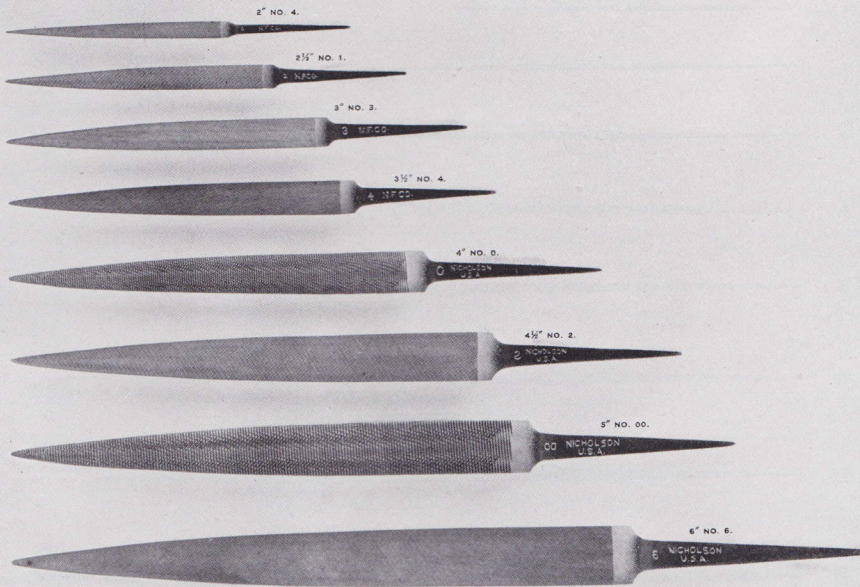




HALF ROUND.



CROSSING.





SQUARE.

2" NO. 2

2½" NO. 4.

3" NO. 2.

3½" NO. 0.

4" NO. 6.

4½" NO. 3.

5" NO. 1.

6" NO. 00.

00NF CO

ROUND.

2" NO. 4.

2 1/2" NO. 1.

3" NO. 2.

3 1/2" NO. 2.

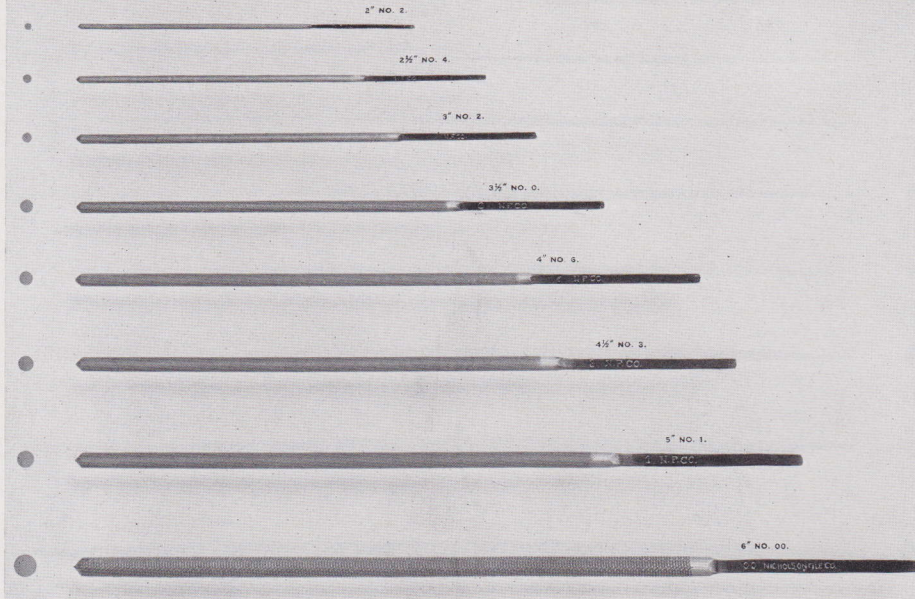
4" NO. 0.

4 1/2" NO. 2.

5" NO. 00.

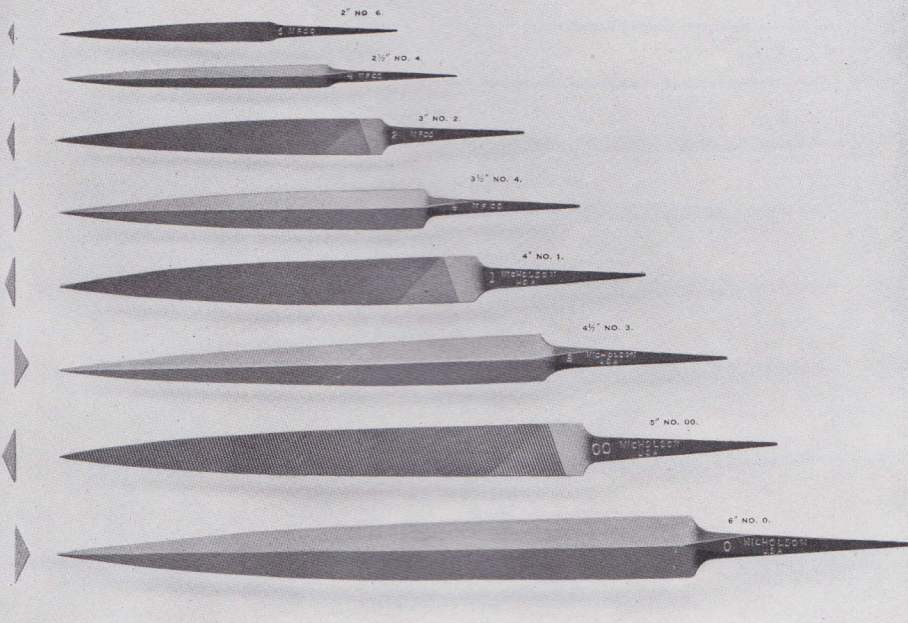
6" NO. 6.

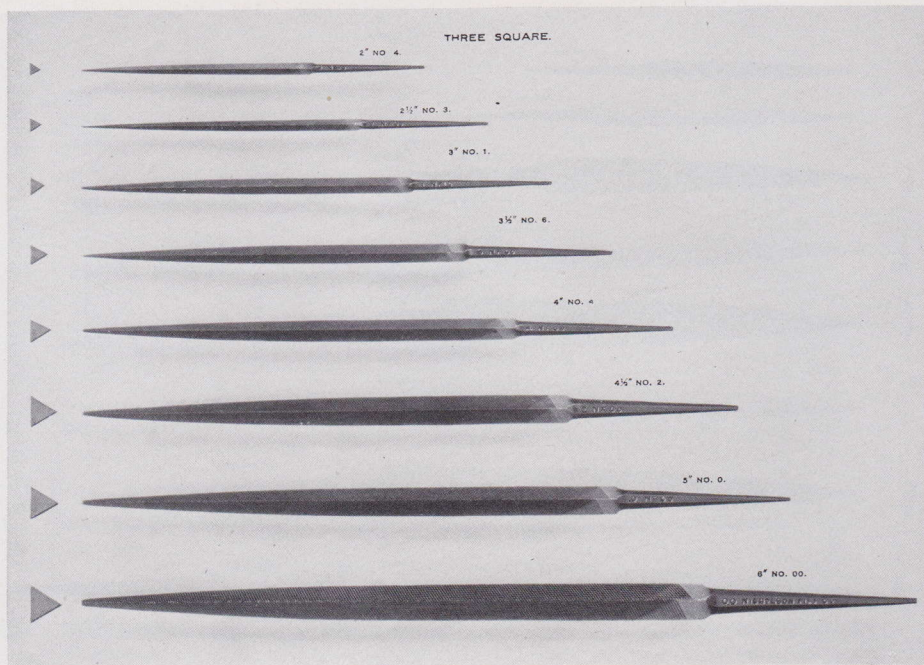
ROUND STRAIGHT.





BARRETTE SAFE BACK.





KNIFE.

2½" NO. 3.



3" NO. 1.



3½" NO. 2.



4" NO. 6.



4½" NO. 4.



5" NO. 0.



6" NO. 0.





WARDING.

2½" NO. 3.



3" NO. 1.



3½" NO. 0.



4" NO. 00.



4½" NO. 6.



5" NO. 4.



6" NO. 2.



CROCHET.

2" NO. 1.



2 1/2" NO. 6.



3" NO. 4.



3 1/2" NO. 2.



4" NO. 0.



4 1/2" NO. 3.



5" NO. 00.



6" NO. 4.



EQUALING.

2½" NO. 3.

3" NO. 1.

3½" NO. 2.

4" NO. 0.

4½" NO. 4.

5" NO. 00.

8" NO. 6.



METAL SAW.

3" NO. 4.

4" NO. 0.

5" NO. 2.

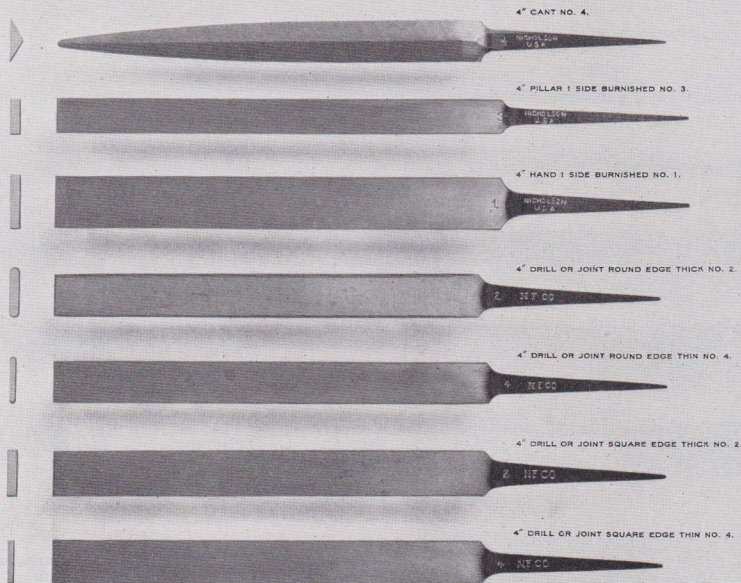
6" NO. 1.

SLITTING.

4" NO. 4.

5" NO. 2.

6" NO. 0.



WATCHMAKERS FILES.

LEFT HAND PIVOT.



RIGHT HAND PIVOT.



DOUBLE END PIVOT.



BURNISHER.



RATCHET FILE.



BALANCE RIM FILE.



BALANCE RIM FILE.



BALANCE ARM FILE.



SCREW HEAD PLAIN.

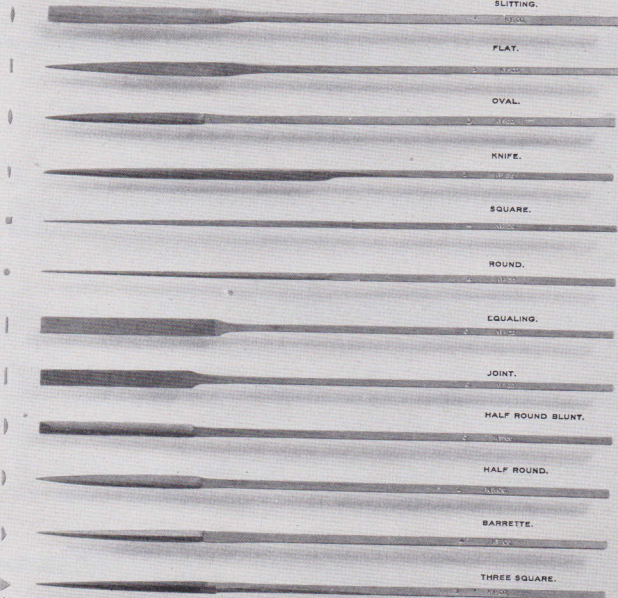


SCREW HEAD TANGED.

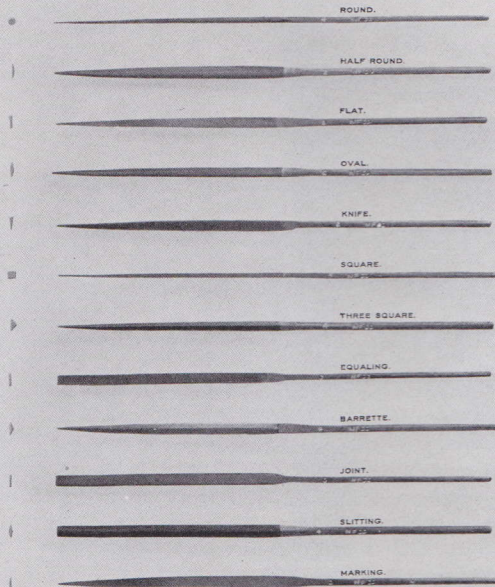




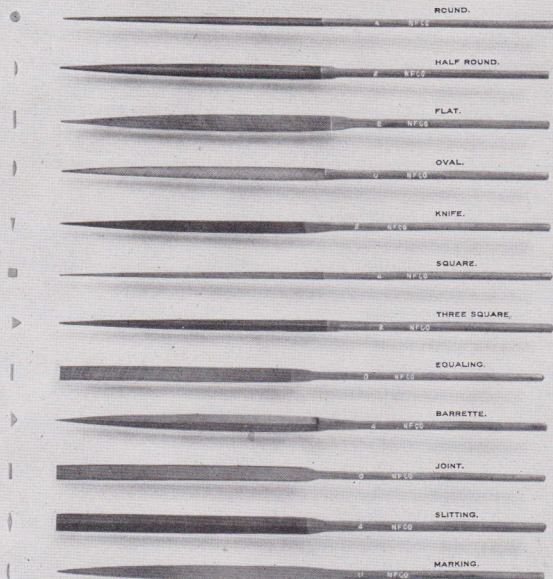
ASSORTED SET OF TWELVE 3½" SQUARE HANDLE NEEDLE OR ESCAPEMENT FILES.



ASSORTED SET OF TWELVE 4" ROUND HANDLE NEEDLE FILES.



ASSORTED SET OF TWELVE 4 1/4" ROUND HANDLE NEEDLE FILES.





ASSORTED SET OF TWELVE 5/8" ROUND HANDLE NEEDLE FILES.  
ROUND.



1

RFCD

HALF ROUND.



2

RFCD

FLAT.



3

RFCD

OVAL.



4

RFCD

KNIFE.



5

RFCD

SQUARE.



6

RFCD

THREE SQUARE.



7

RFCD

EQUALING.



8

RFCD

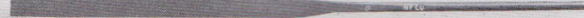
BARRETTE.



9

RFCD

JOINT.



10

RFCD

SLITTING.



11

RFCD

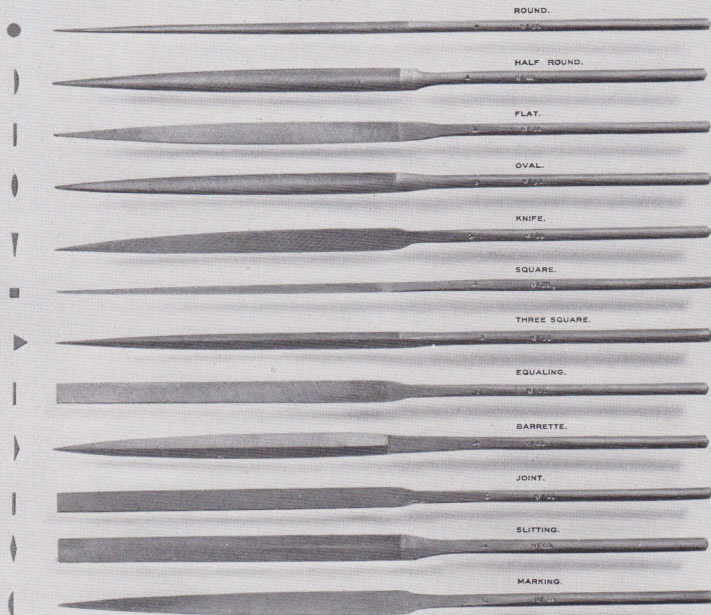
MARKING.



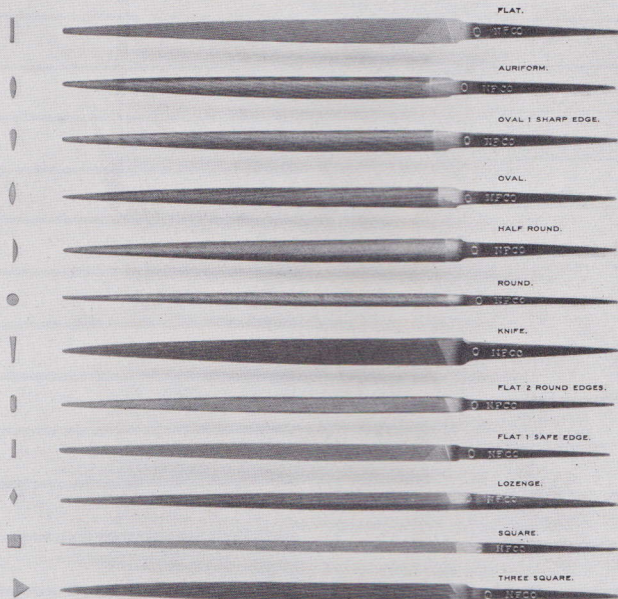
12

RFCD

ASSORTED SET OF TWELVE 6 1/2" ROUND HANDLE NEEDLE FILES.



ASSORTED SET OF TWELVE 3/16" DIE SINKERS FILES.

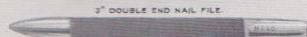




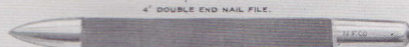
SECTION.		BROACH FILES. STEEL WIRE GAUGE. FROM 41 TO 65.		SECTION.		GAUGE.	
•	_____	65		•	_____	32	
•	_____	64		•	_____	31	
•	_____	63		•	_____	30	
•	_____	62		•	_____	29	
•	_____	61		•	_____	28	
•	_____	60		•	_____	27	
•	_____	59		•	_____	26	
•	_____	58		•	_____	25	
•	_____	57		•	_____	24	
•	_____	56		•	_____	23	
•	_____	55		•	_____	22	
•	_____	54		•	_____	21	
•	_____	53		•	_____	20	



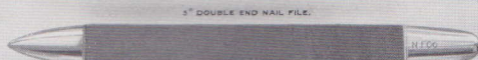
CORN KNIFE  
HANDLED.



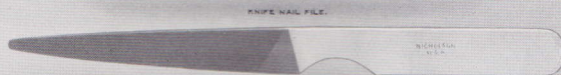
3" DOUBLE END NAIL FILE.



4" DOUBLE END NAIL FILE.



5" DOUBLE END NAIL FILE.



KNIFE NAIL FILE.



KNIFE NAIL FILE CLEANER POINT.



CURVED NAIL FILE CLEANER POINT.



NAIL FILE BONE HANDLED CLEANER POINT.



KNIFE NAIL FILE BONE HANDLED BLADE TIP.



CURVED CORN KNIFE  
HANDLED.

MACHINISTS' SCRAPERS.

THREE SQUARE.



CANT.



HALF ROUND BLUNT.



ROUND BLUNT.



MILL BLUNT.



THREE SQUARE BLUNT.





BENT RIFFLERS HANDLED.

THREE SQUARE BASTARD.



HAND BASTARD.



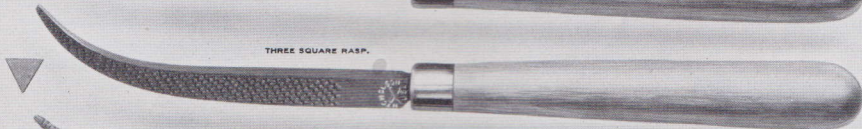
FLAT FLOAT SAFE SIDES.



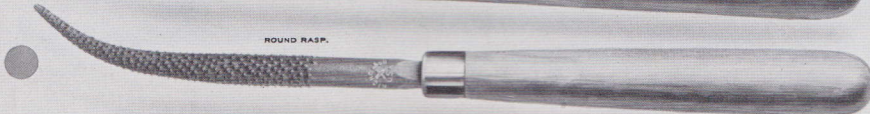
HALF ROUND BASTARD.



THREE SQUARE RASP.



ROUND RASP.



STUB FILES AND HOLDER.

FILES DETACHABLE.

REAPER.

PILLAR.

FLAT.

CABINET.

PITSAW.

THREE SQUARE.

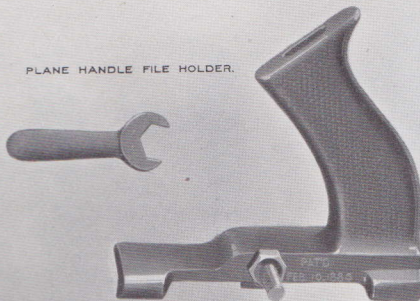
SURFACE FILE HOLDER.

HORSE MOUTH RASPS.

JOINTED. NICKELLED.

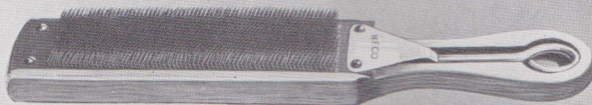
PLAIN.

PLANE HANDLE FILE HOLDER.

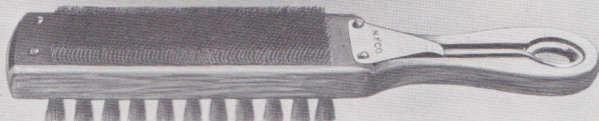


FILE CLEANERS.

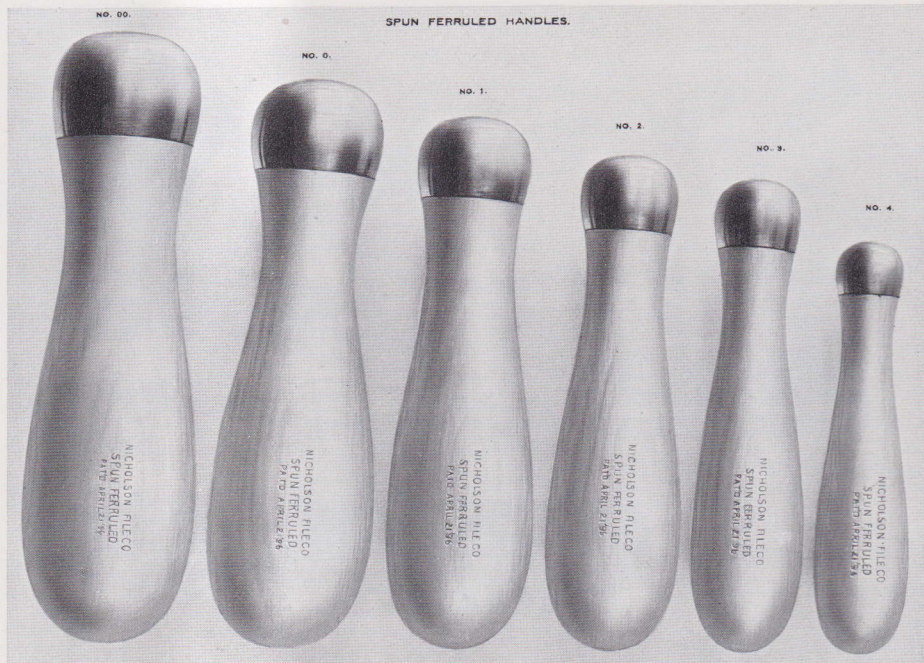
FILE CARD



FILE BRUSH







STRAIGHT FERRUED HANDLES.



NO. 11.



NO. 12.



NO. 13.



NO. 14.



NO. 15.



# ALPHABETICAL INDEX

The figure found in column headed "Doz." indicates that that length and shorter are packed in boxes containing twelve files.

All above that length are packed in boxes containing six files.

	Doz.	Page		Doz.	Page
Balance Files, X. F. (in 1 doz.), . . . . .		75	Equaling (see Mill Blunt D. C.), . . . . .	10	22
Band Saw Blunt Heavy, . . . . .	10	48	Equaling, X. F., . . . . .	6	72
Band Saw Blunt Regular, . . . . .	10	48	Escapement Files (in 1 doz.), . . . . .		76
Band Saw Blunt Slim, . . . . .	10	48	Extra Slim Tapers, . . . . .	10	41
Band Saw Machine (in 1 doz.), . . . . .		52	Farmer's Own, . . . . .	8	51
Band Saw Taper Heavy, . . . . .	10	48	Feather Edge, . . . . .	8	19
Band Saw Taper Regular, . . . . .	10	48	File Cleaners; Cards and Brushes (in ½ doz.), . . . . .		87
Band Saw Taper Slim (in 1 doz.), . . . . .		48	File Handles (in 1 doz.), . . . . .		88, 89
Barrette, X. F., . . . . .	6	67	File Holders, . . . . .		87
Bent Riffles (in Kits of ½ doz.), . . . . .		85	Flat, . . . . .	9	18
Block Files (in ½ doz.), . . . . .		27	Flat Finishing, same Cuts as Hand Finishing, . . . . .	9	
Broach Files, X. F. (in 1 doz.), . . . . .		82	Flat Lead Float, . . . . .	9	20
Burnisher, X. F., . . . . .	6	75	Flat Open Cut, . . . . .	9	19
Cabinet Files, . . . . .	9	36, 37	Flat Shoe Rasp (in ½ doz.), . . . . .		27
Cabinet Rasps, . . . . .	9	36, 37	Flat Single Cut, . . . . .	9	20
Cant Saw, . . . . .	10	49	Flat Two Round Edges, . . . . .	9	18
Cant, X. F., . . . . .	6	74	Flat Wood File, . . . . .	9	32, 33
Chisel Pointing (or Inserted Tooth), . . . . .	9	49	Flat Wood Rasp, . . . . .	8	32, 33
Climax Saw, . . . . .	6	52	Ginsaw (Knife), . . . . .	10	52
Cotter, . . . . .	8	23	Gulleting, . . . . .	8	50
Crochet, X. F., . . . . .	6	71	Half Round, . . . . .	9	24
Cross Cut, . . . . .	10	49	Half Round Lead Float, . . . . .	9	24
Crossing, . . . . .	8	25	Half Round Open Cut, . . . . .	9	25
Crossing, X. F., . . . . .	6	63	Half Round Shoe Rasp (in ½ doz.), . . . . .		27
Die Sinkers, X. F. (in 1 doz.), . . . . .		81	Half Round Wood File, . . . . .	9	34, 35
Double Enders (and ½ doz.), . . . . .	12	45	Half Round Wood Rasp, . . . . .	8	34, 35
Drill or Joint, X. F. (in 1 doz.), . . . . .		74	Half Round, X. F., . . . . .	6	62



# ALPHABETICAL INDEX

CONTINUED

	Doz.	Page		Doz.	Page
Hand, . . . . .	9	16	Machine Bandsaw (in 1 doz.), . . . . .		52
Hand Finishing, . . . . .	9	17	Machinists Scrapers (in kits of ½ doz.), . . . . .		84
Hand One Side Burnished, . . . . .	6	74	Manicure (Handled in ½ doz. Others 1 doz.), . . . . .		83
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